

Connecting via Winsock to STN

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PASSWORD:

TERMINAL (ENTER 1, 2, 3, OR ?):2

* * * * * Welcome to STN International * * * * *

NEWS	1		Web Page for STN Seminar Schedule - N. America
NEWS	2	OCT 02	CA/Capius enhanced with pre-1907 records from Chemisches Zentralblatt
NEWS	3	OCT 19	BEILSTEIN updated with new compounds
NEWS	4	NOV 15	Derwent Indian patent publication number format enhanced
NEWS	5	NOV 19	WPIX enhanced with XML display format
NEWS	6	NOV 30	ICSD reloaded with enhancements
NEWS	7	DEC 04	LINPADOCDB now available on STN
NEWS	8	DEC 14	BEILSTEIN pricing structure to change
NEWS	9	DEC 17	USPATOLD added to additional database clusters
NEWS	10	DEC 17	IMSDRUGCONF removed from database clusters and STN
NEWS	11	DEC 17	DGENE now includes more than 10 million sequences
NEWS	12	DEC 17	TOXCENTER enhanced with 2008 MeSH vocabulary in MEDLINE segment
NEWS	13	DEC 17	MEDLINE and LMEDLINE updated with 2008 MeSH vocabulary
NEWS	14	DEC 17	CA/Capius enhanced with new custom IPC display formats
NEWS	15	DEC 17	STN Viewer enhanced with full-text patent content from USPATOLD
NEWS	16	JAN 02	STN pricing information for 2008 now available
NEWS	17	JAN 16	CAS patent coverage enhanced to include exemplified prophetic substances
NEWS	18	JAN 28	USPATFULL, USPAT2, and USPATOLD enhanced with new custom IPC display formats
NEWS	19	JAN 28	MARPAT searching enhanced
NEWS	20	JAN 28	USGENE now provides USPTO sequence data within 3 days of publication
NEWS	21	JAN 28	TOXCENTER enhanced with reloaded MEDLINE segment
NEWS	22	JAN 28	MEDLINE and LMEDLINE reloaded with enhancements
NEWS	23	FEB 08	STN Express, Version 8.3, now available
NEWS	24	FEB 20	PCI now available as a replacement to DPCI
NEWS	25	FEB 25	IFIREF reloaded with enhancements
NEWS	26	FEB 25	IMSPRODUCT reloaded with enhancements
NEWS	27	FEB 29	WPINDEX/WPIDS/WPIX enhanced with ECLA and current U.S. National Patent Classification
NEWS EXPRESS	FEBRUARY 08 CURRENT WINDOWS VERSION IS V8.3, AND CURRENT DISCOVER FILE IS DATED 20 FEBRUARY 2008		
NEWS HOURS	STN Operating Hours Plus Help Desk Availability		
NEWS LOGIN	Welcome Banner and News Items		
NEWS IPC8	For general information regarding STN implementation of IPC 8		

Enter NEWS followed by the item number or name to see news on that specific topic.

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* * * * * STN Columbus * * * * *

FILE 'HOME' ENTERED AT 10:49:57 ON 21 MAR 2008

```
=> file reg
COST IN U.S. DOLLARS          SINCE FILE      TOTAL
                               ENTRY      SESSION
FULL ESTIMATED COST          0.21        0.21
```

FILE 'REGISTRY' ENTERED AT 10:50:15 ON 21 MAR 2008

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Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

STRUCTURE FILE UPDATES: 20 MAR 2008 HIGHEST RN 1009361-91-4
DICTIONARY FILE UPDATES: 20 MAR 2008 HIGHEST RN 1009361-91-4

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH January 9, 2008.

Please note that search-term pricing does apply when conducting SmartSELECT searches.

REGISTRY includes numerically searchable data for experimental and predicted properties as well as tags indicating availability of experimental property data in the original document. For information on property searching in REGISTRY, refer to:

<http://www.cas.org/support/stngen/stdoc/properties.html>

=> e hexafluoroethane/cn

```
E1      1      HEXAFLUORODISILOXANE/CN
E2      1      HEXAFLUOROEOXYPROPANE/CN
E3      1 -->  HEXAFLUOROETHANE/CN
E4      1      HEXAFLUOROETHANE HOMOPOLYMER/CN
E5      1      HEXAFLUOROETHANE HYDRATE/CN
E6      1      HEXAFLUOROETHANE (+)/CN
E7      1      HEXAFLUOROETHANE-13C/CN
E8      1      HEXAFLUOROETHANE-ETHYLENE COPOLYMER/CN
E9      1      HEXAFLUOROFERRATE (III)/CN
E10     1      HEXAFLUOROFERRATE (3-)/CN
E11     1      HEXAFLUOROFERRATE (4-)/CN
E12     1      HEXAFLUOROFERRATE (5-)/CN
```

=> s e3

```
L1      1      HEXAFLUOROETHANE/CN
```

=> d l1

```
L1      ANSWER 1 OF 1 REGISTRY  COPYRIGHT 2008 ACS on STN
RN      76-16-4 REGISTRY
ED      Entered STN: 16 Nov 1984
```

CN Ethane, 1,1,1,2,2,2-hexafluoro- (CA INDEX NAME)
 OTHER CA INDEX NAMES:
 CN Ethane, hexafluoro- (8CI, 9CI)
 OTHER NAMES:
 CN Ethyl hexafluoride
 CN F 116
 CN F 116 (fluorocarbon)
 CN FC 116
 CN FC 1160
 CN Freon 116
 CN Hexafluoroethane
 CN HFC 116
 CN Perfluorocarbon 116
 CN Perfluoroethane
 CN PFC 116
 CN R 116
 DR 185009-34-1
 MF C2 F6
 CI COM
 LC STN Files: ANABSTR, BEILSTEIN*, BIOSIS, BIOTECHNO, CA, CAOLD, CAPLUS,
 CASREACT, CBNB, CHEMCATS, CHEMINFORMRX, CHEMLIST, CIN, CSCHEM, CSNB,
 DETHERM*, EMBASE, GMELIN*, IFICDB, IFIPAT, IFIUDB, MEDLINE, MSDS-OHS,
 PIRA, PROMT, RTECS*, SPECINFO, TOXCENTER, ULIDAT, USPAT2, USPATFULL,
 USPATOLD
 (*File contains numerically searchable property data)
 Other Sources: DSL**, EINECS**, TSCA**
 (**Enter CHEMLIST File for up-to-date regulatory information)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

3813 REFERENCES IN FILE CA (1907 TO DATE)
 26 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
 3816 REFERENCES IN FILE CAPLUS (1907 TO DATE)
 155 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

=> e dichlorotetrafluoroethane/cn
 E1 1 DICHLOROTETRAETHYLENEDIRHODIUM(I)/CN
 E2 1 DICHLOROTETRAFLUOROBENZENE/CN
 E3 1 --> DICHLOROTETRAFLUOROETHANE/CN
 E4 1 DICHLOROTETRAFLUOROTITANATE(2-)/CN
 E5 1 DICHLOROTETRAFLUOROTITANATE(3-)/CN
 E6 1 DICHLOROTETRAFLUOROTUNGSTEN/CN
 E7 1 DICHLOROTETRAHYDRODIGALLIUM/CN
 E8 1 DICHLOROTETRAHYDROXORHENATE(2-)/CN
 E9 1 DICHLOROTETRAHYDROXYANTIMONATE(1-)/CN
 E10 1 DICHLOROTETRAHYDROXYDIALUMINUM/CN
 E11 1 DICHLOROTETRAIODOSTANNATE(2-)/CN
 E12 1 DICHLOROTETRAKIS(B-PICOLINE)CADMIUM/CN

=> s e3
 L2 1 DICHLOROTETRAFLUOROETHANE/CN

=> d 12

L2 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2008 ACS on STN
RN 1320-37-2 REGISTRY
ED Entered STN: 16 Nov 1984
CN Ethane, dichlorotetrafluoro- (CA INDEX NAME)
OTHER NAMES:
CN Dichlorotetrafluoroethane
CN Isceon 224
CN Tetrafluorodichloroethane
MF C2 Cl2 F4
CI IDS, COM
LC STN Files: ADISNEWS, ANABSTR, BIOSIS, CA, CAOLD, CAPLUS, CASREACT, CBNB,
CHEMLIST, CIN, CSNB, DETHERM*, EMBASE, ENCOMPLIT, ENCOMPLIT2, ENCOMPPAT,
ENCOMPPAT2, IFICDB, IFIPAT, IFIUDB, IPA, MSDS-OHS, PIRA, PROMT, RTECS*,
TOXCENTER, USPAT2, USPATFULL, USPATOLD
(*File contains numerically searchable property data)
Other Sources: DSL**, EINECS**, TSCA**
(**Enter CHEMLIST File for up-to-date regulatory information)

1/2 [H₃C-CH₃]

2 (D1-F)

D1-Cl

488 REFERENCES IN FILE CA (1907 TO DATE)
489 REFERENCES IN FILE CAPLUS (1907 TO DATE)
18 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

=> e chloropentafluoroethane/cn

E1 1 CHLOROPENTAFLUOROCYCLOTRIPHOSPHAZENE/CN
E2 1 CHLOROPENTAFLUOROCYCLOTRISILANE/CN
E3 0 --> CHLOROPENTAFLUOROETHANE/CN
E4 1 CHLOROPENTAFLUOROETHANE ANION RADICAL/CN
E5 1 CHLOROPENTAFLUOROISOPROPYLIDENIMINE/CN
E6 1 CHLOROPENTAFLUOROMANGANATE (2-)/CN
E7 1 CHLOROPENTAFLUOROPHOSPHATE (1-)/CN
E8 1 CHLOROPENTAFLUOROPLATINATE (2-)/CN
E9 1 CHLOROPENTAFLUOROSELENIUM/CN
E10 1 CHLOROPENTAFLUOROSILICATE (2-)/CN
E11 1 CHLOROPENTAFLUROSULFUR/CN
E12 1 CHLOROPENTAFLUOROTANTALATE (1-)/CN

=> e chloropentafluoroethane/cn

E1 1 CHLOROPENTAFLUOROCYCLOTRIPHOSPHAZENE/CN
E2 1 CHLOROPENTAFLUOROCYCLOTRISILANE/CN
E3 0 --> CHLOROPENTAFLUOROETHANE/CN
E4 1 CHLOROPENTAFLUOROETHANE ANION RADICAL/CN
E5 1 CHLOROPENTAFLUOROISOPROPYLIDENIMINE/CN
E6 1 CHLOROPENTAFLUOROMANGANATE (2-)/CN
E7 1 CHLOROPENTAFLUOROPHOSPHATE (1-)/CN
E8 1 CHLOROPENTAFLUOROPLATINATE (2-)/CN

E9 1 CHLOROPENTAFLUOROSELENIUM/CN
 E10 1 CHLOROPENTAFLUOROSILICATE (2-) /CN
 E11 1 CHLOROPENTAFLUOROSULFUR/CN
 E12 1 CHLOROPENTAFLUOROTANTALATE (1-) /CN

=> e 1-chloro-2,2,2-trifluoroethane/cn

E1 1 1-CHLORO-2,2,2-TRIFLUORO-1-PHENYLETHANE/CN
 E2 1 1-CHLORO-2,2,2-TRIFLUORO-1-PHENYLETHYL ISOCYANATE/CN
 E3 1 --> 1-CHLORO-2,2,2-TRIFLUOROETHANE/CN
 E4 1 1-CHLORO-2,2,2-TRIFLUOROETHOXY/CN
 E5 1 1-CHLORO-2,2,2-TRIFLUOROETHYL DIFLUOROMETHYL ETHER/CN
 E6 1 1-CHLORO-2,2,2-TRIFLUOROETHYL ETHYL ETHER/CN
 E7 1 1-CHLORO-2,2,2-TRIFLUOROETHYL ISOPROPYL ETHER/CN
 E8 1 1-CHLORO-2,2,2-TRIFLUOROETHYL METHYL ETHER/CN
 E9 1 1-CHLORO-2,2,2-TRIFLUOROETHYL OCTYL ETHER/CN
 E10 1 1-CHLORO-2,2,2-TRIFLUOROETHYL PHENETHYL ETHER/CN
 E11 1 1-CHLORO-2,2,2-TRIFLUOROETHYL PHENYL SULFIDE/CN
 E12 1 1-CHLORO-2,2,2-TRIFLUOROETHYLPEROXY/CN

=> s e3

L3 1 "1-CHLORO-2,2,2-TRIFLUOROETHANE"/CN

=> d l3

L3 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2008 ACS on STN

RN 75-88-7 REGISTRY

ED Entered STN: 16 Nov 1984

CN Ethane, 2-chloro-1,1,1-trifluoro- (CA INDEX NAME)

OTHER NAMES:

CN (Chloromethyl)trifluoromethane

CN 1,1,1-Trifluoro-2-chloroethane

CN 1,1,1-Trifluoro-chloroethane

CN 1,1,1-Trifluoroethyl chloride

CN 1-Chloro-2,2,2-trifluoroethane

CN 2,2,2-Trifluoro-1-chloroethane

CN 2,2,2-Trifluoro-chloroethane

CN 2,2,2-Trifluoroethyl chloride

CN 2-Chloro-1,1,1-trifluoroethane

CN F 133a

CN FC 133a

CN Forane 133a

CN Freon 133a

CN Genetron 133a

CN HCFC 133a

CN R 133a

MF C2 H2 Cl F3

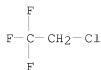
CI COM

LC STN Files: AGRICOLA, ANABSTR, BEILSTEIN*, BIOSIS, CA, CAOLD, CAPLUS,
 CASREACT, CBNB, CHEMCATS, CHEMINFORMRX, CHEMLIST, CHEMSAFE, CIN, CSCHEM,
 CSNB, DETHERM*, EMBASE, HSDB*, IFCDB, IFIPAT, IFIUDB, MEDLINE,
 MSDS-OHS, PROMT, PS, RTECS*, SPECINFO, TOXCENTER, ULIDAT, USPAT2,
 USPATFULL, USPATOLD

(*File contains numerically searchable property data)

Other Sources: EINECS**, NDSL**, TSCA**

(**Enter CHEMLIST File for up-to-date regulatory information)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

754 REFERENCES IN FILE CA (1907 TO DATE)
 3 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
 754 REFERENCES IN FILE CAPLUS (1907 TO DATE)
 46 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

```
=> e 1,1-dichloro-2,2,2-trifluoroethane/cn
E1      1      1,1-DICHLORO-1-UNDECENE/CN
E2      1      1,1-DICHLORO-2,2,2-TRIFLUORO-1-iodoethane/CN
E3      1 --> 1,1-DICHLORO-2,2,2-TRIFLUOROETHANE/CN
E4      1      1,1-DICHLORO-2,2,2-TRIFLUOROETHANE MIXT. WITH 2,2,2-TRIFLUOR
OETHANOL/CN
E5      1      1,1-DICHLORO-2,2,2-TRIFLUOROETHANE MIXT. WITH 2,2,3,3,3-PENT
AFLUORO-1-PROPANOL/CN
E6      1      1,1-DICHLORO-2,2,2-TRIFLUOROETHANE MIXT. WITH 2,2,3,3-TETRAFL
UORO-1-PROPANOL/CN
E7      1      1,1-DICHLORO-2,2,2-TRIFLUOROETHANE MIXT. WITH METHANOL/CN
E8      1      1,1-DICHLORO-2,2,2-TRIFLUOROETHANE-D/CN
E9      1      1,1-DICHLORO-2,2,2-TRIFLUOROETHANE-ETHANOL MIXT./CN
E10     1      1,1-DICHLORO-2,2,2-TRIFLUOROETHANE-ISOPROPANOL MIXT./CN
E11     1      1,1-DICHLORO-2,2,2-TRIFLUOROETHYL/CN
E12     1      1,1-DICHLORO-2,2,2-TRIFLUOROETHYL ISOCYANATE/CN
```

```
=> s e3
L4      1 "1,1-DICHLORO-2,2,2-TRIFLUOROETHANE"/CN
```

```
=> d 14
```

```
L4 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2008 ACS on STN
RN 306-83-2 REGISTRY
ED Entered STN: 16 Nov 1984
CN Ethane, 2,2-dichloro-1,1,1-trifluoro- (CA INDEX NAME)
OTHER NAMES:
CN 1,1,1-Trifluoro-2,2-dichloroethane
CN 1,1,1-Trifluorodichloroethane
CN 1,1-Dichloro-2,2,2-trifluoroethane
CN 2,2-Dichloro-1,1,1-trifluoroethane
CN CFC 123
CN Dichloro(trifluoromethyl)methane
CN F 123
CN F 123 (halocarbon)
CN FC 123
CN Freon 123
CN Fron 123
CN HCFC 123
CN HFA 123
CN Khladon 123
CN R 123
CN Solkane 123
MF C2 H Cl2 F3
CI COM
```

LC STN Files: AGRICOLA, ANABSTR, BEILSTEIN*, BIOSIS, BIOTECHNO, CA, CAOLD, CAPLUS, CASREACT, CBNB, CHEMCATS, CHEMINFORMRX, CHEMLIST, CIN, CSCHEM, CSNB, DETHERM*, EMBASE, ENCOMPLIT, ENCOMPLIT2, ENCOMPPAT, ENCOMPPAT2, GMELIN*, HSDB*, IFICDB, IFIPAT, IFIUDB, MEDLINE, MSDS-OHS, PIRA, PROMT, RTECS*, SCISEARCH, SPECINFO, TOXCENTER, ULIDAT, USPAT2, USPATFULL, USPATOLD

(*File contains numerically searchable property data)

Other Sources: DSL**, EINECS**, TSCA**

(**Enter CHEMLIST File for up-to-date regulatory information)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1776 REFERENCES IN FILE CA (1907 TO DATE)

10 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA

1778 REFERENCES IN FILE CAPLUS (1907 TO DATE)

21 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

=> e 1-chloro-1,2,2,2-tetrafluoroethane/cn

E1 1 1-CHLORO-1,2,2,2-TETRAFLUORO-1-iodoethane/CN
 E2 1 1-CHLORO-1,2,2,2-TETRAFLUORO-1-NITROETHANE/CN
 E3 1 --> 1-CHLORO-1,2,2,2-TETRAFLUOROETHANE/CN
 E4 1 1-CHLORO-1,2,2,2-TETRAMETHYLDISILANE/CN
 E5 1 1-CHLORO-1,2,2,3,3-HEXAFLUOROPROPANE/CN
 E6 1 1-CHLORO-1,2,2,3,3-PENTAFLUOROBUTANE/CN
 E7 1 1-CHLORO-1,2,2,3,3-PENTAFLUOROCYCLOBUTANE/CN
 E8 1 1-CHLORO-1,2,2,3,3-PENTAFLUOROPROPANE/CN
 E9 1 1-CHLORO-1,2,2,3,4-HEXAFLUOROBUT-3-ENE-1-SULFONYL FLUORIDE /CN
 E10 1 1-CHLORO-1,2,2,3-TETRAFLUORO-3-METHOXYCYCLOPROPANE/CN
 E11 1 1-CHLORO-1,2,2,3-TETRAFLUOROBUTANE/CN
 E12 1 1-CHLORO-1,2,2,3-TETRAFLUOROPROPANE/CN

=> s e3

L5 1 "1-CHLORO-1,2,2,2-TETRAFLUOROETHANE"/CN

=> d 15

L5 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2008 ACS on STN

RN 2837-89-0 REGISTRY

ED Entered STN: 16 Nov 1984

CN Ethane, 2-chloro-1,1,1,2-tetrafluoro- (CA INDEX NAME)

OTHER NAMES:

CN 1,1,1,2-Tetrafluoro-2-chloroethane
 CN 1,1,1,2-Tetrafluorochloroethane
 CN 1-Chloro-1,2,2,2-tetrafluoroethane
 CN 2-Chloro-1,1,1,2-tetrafluoroethane
 CN CFC 124
 CN F 124
 CN FC 124
 CN Freon 124
 CN Fron 124
 CN HCFC 124

CN Khladon 124
 CN R 124
 MF C2 H C1 F4
 CI COM
 LC STN Files: ANABSTR, BEILSTEIN*, BIOSIS, CA, CAOLD, CAPLUS, CASREACT,
 CBNB, CHEMCATS, CHEMINFORMRX, CHEMLIST, CIN, CSCHEM, CSNB, DETHERM*,
 HSDB*, IFICDB, IFIPAT, IFIUDB, MEDLINE, MSDS-OHS, PIRA, PROMT, RTECS*,
 TOXCENTER, ULIDAT, USPAT2, USPATFULL, USPATOLD
 (*File contains numerically searchable property data)
 Other Sources: EINECS**, TSCA**
 (**Enter CHEMLIST File for up-to-date regulatory information)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

874 REFERENCES IN FILE CA (1907 TO DATE)
 1 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
 875 REFERENCES IN FILE CAPLUS (1907 TO DATE)
 7 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

=> d his

(FILE 'HOME' ENTERED AT 10:49:57 ON 21 MAR 2008)

FILE 'REGISTRY' ENTERED AT 10:50:15 ON 21 MAR 2008

L1 1 S E3
 E HEXAFLUOROETHANE/CN
 L2 1 S E3
 E DICHLOROTETRAFLUOROETHANE/CN
 E CHLOROPENTAFLUOROETHANE/CN
 E CHLOROPENTAFLUOROETHANE/CN
 E 1-CHLORO-2,2,2-TRIFLUOROETHANE/CN
 L3 1 S E3
 E 1,1-DICHLORO-2,2,2-TRIFLUOROETHANE/CN
 L4 1 S E3
 E 1-CHLORO-1,2,2,2-TETRAFLUOROETHANE/CN
 L5 1 S E3

=> file caplus
 COST IN U.S. DOLLARS

SINCE FILE	TOTAL
ENTRY	SESSION
42.19	42.40

FULL ESTIMATED COST

FILE 'CAPLUS' ENTERED AT 10:58:24 ON 21 MAR 2008

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FILE COVERS 1907 - 21 Mar 2008 VOL 148 ISS 13
FILE LAST UPDATED: 20 Mar 2008 (20080320/ED)

Effective October 17, 2005, revised CAS Information Use Policies apply. They are available for your review at:

<http://www.cas.org/infopolicy.html>

```
=> s l1/prep
      3816 L1
      4545971 PREP/RL
L6      449 L1/PREP
          (L1 (L) PREP/RL)

=> s l2 or l3 or l4 or l5
      489 L2
      754 L3
      1778 L4
      875 L5
L7      3204 L2 OR L3 OR L4 OR L5

=> s l6 and l7
L8      22 L6 AND L7

=> s l8 and distill?
      133145 DISTILL?
      168682 DISTD
          1 DISTDS
      168682 DISTD
          (DISTD OR DISTDS)
      27252 DISTG
      180798 DISTN
      1822 DISTNS
      181550 DISTN
          (DISTN OR DISTNS)
      397186 DISTILL?
          (DISTILL? OR DISTD OR DISTG OR DISTN)
L9      2 L8 AND DISTILL?

=> s l8 and hydrogen gas and fluorine
      1048717 HYDROGEN
      6166 HYDROGENS
      1052144 HYDROGEN
          (HYDROGEN OR HYDROGENS)
      1654799 GAS
      545947 GASES
      1845948 GAS
          (GAS OR GASES)
          9189 HYDROGEN GAS
          (HYDROGEN(W)GAS)
      112941 FLUORINE
          572 FLUORINES
      113256 FLUORINE
          (FLUORINE OR FLUORINES)
L10      0 L8 AND HYDROGEN GAS AND FLUORINE

=> s l8 and hydrogen fluoride and fluorine
      1048717 HYDROGEN
```

6166 HYDROGENS
 1052144 HYDROGEN
 (HYDROGEN OR HYDROGENS)
 271456 FLUORIDE
 44345 FLUORIDES
 287226 FLUORIDE
 (FLUORIDE OR FLUORIDES)
 25777 HYDROGEN FLUORIDE
 (HYDROGEN(W)FLUORIDE)
 112941 FLUORINE
 572 FLUORINES
 113256 FLUORINE
 (FLUORINE OR FLUORINES)

L11 2 L8 AND HYDROGEN FLUORIDE AND FLUORINE

=> s 19 or l11

L12 3 L9 OR L11

=> d l12 ibib ab tot

L12 ANSWER 1 OF 3 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 2005:182602 CAPLUS

DOCUMENT NUMBER: 142:281958

TITLE: Process for producing hexafluoroethane

INVENTOR(S): Ohno, Hiromoto; Arai, Tatsuharu

PATENT ASSIGNEE(S): Showa Denko K. K., Japan

SOURCE: PCI Int. Appl., 27 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2005019141	A2	20050303	WO 2004-JP11709	20040809
WO 2005019141	A3	20050512		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
JP 2005097245	A	20050414	JP 2004-121604	20040416
CN 1839108	A	20060927	CN 2004-80023821	20040809
KR 806260	B1	20080222	KR 2006-702604	20060207
US 2006252970	A1	20061109	US 2006-567757	20060210
PRIORITY APPLN. INFO.:			JP 2003-208236	A 20030821
			US 2003-498284P	P 20030828
			JP 2004-121604	A 20040416
			WO 2004-JP11709	W 20040809

OTHER SOURCE(S): CASREACT 142:281958

AB A process for producing hexafluoroethane, comprising a step of
 distilling a crude hexafluoroethane containing chlorine compds. each
 having two carbon atoms to distill out hexafluoroethane as a top
 flow from the top of a distillation column and sep. a hexafluoroethane
 mixture containing the chlorine compds. as a bottom flow from the bottom, and a

step of contacting the bottom flow with hydrogen fluoride in the gas phase at 300-500° in the presence of a fluorination catalyst to fluorinate the chlorine compds. A process flow diagram is presented.

L12 ANSWER 2 OF 3 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 2003:82889 CAPLUS
DOCUMENT NUMBER: 138:197950
TITLE: Determination of perfluoroisobutylene by gas chromatography
INVENTOR(S): Dedov, A. S.; Zakharov, V. Yu.; Abramov, O. B.; Vyrzheikin, E. S.; Khakhulina, L. A.; Mamaeva, N. V.; Terent'eva, I. A.
PATENT ASSIGNEE(S): Otkrytoe Aktsionernoe Obshchestvo "Kirovo-Chepetskii Khimicheskii Kombinat im. B. P. Konstantinova", Russia
SOURCE: Russ., No pp. given
CODEN: RUXXE7
DOCUMENT TYPE: Patent
LANGUAGE: Russian
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
RU 2189037	C1	20020910	RU 2001-112534	20010507

PRIORITY APPLN. INFO.: RU 2001-112534 20010507

AB Perfluoroisobutylene can be determined by gas chromatog. whereby the mixture being analyzed is separated in a flow of a carrier gas in a chromatog. column using silochrome modified by dibutylphthalate (2-3 weight%) as a sorbent. The surface of silochrome contains 2-3 μmol/m² of OH groups due to treatment of the initial sorbent with distilled boiling water for 60 h, followed by drying at 120°C and calcination at 300-400°C for 1 h. A detector of constant recombination rate is employed to record the perfluoroisobutylene. A flame ionization detector analyzes the gases generated by the combustion of waste from fluoroorg. industry. A number of accompanying fluoroorg. compds. are determined simultaneously with perfluoroisobutylene.

L12 ANSWER 3 OF 3 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 2001:935549 CAPLUS
DOCUMENT NUMBER: 136:39118
TITLE: Fluorination process for producing hexafluoroethane from pentafluoroethane and hydrogen fluoride and the product's use as an etching gas
INVENTOR(S): Ohno, Hiromoto; Kaga, Kazunari; Ohi, Toshio
PATENT ASSIGNEE(S): Showa Denko K.K., Japan
SOURCE: PCT Int. Appl., 40 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2001098240	A2	20011227	WO 2001-JP5256	20010620
WO 2001098240	A3	20020606		

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO,

RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ,
VN, YU, ZA, ZW
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY,
DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF,
BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG

JP 2002003415	A	20020109	JP 2000-185654	20000621
AU 2001074561	A5	20020102	AU 2001-74561	20010620
CN 1561319	A	20050105	CN 2001-801719	20010620
TW 593219	B	20040621	TW 2001-90115125	20010621
US 6489523	B1	20021203	US 2002-30823	20020114
US 2002183568	A1	20021205		

PRIORITY APPLN. INFO.: JP 2000-185654 A 20000621
US 2000-230806P P 20000907
WO 2001-JP5256 W 20010620

AB An industrial-scale process for producing CF3CF3 with good profitability using CF3CHF2 which contains a compound having a chlorine atom within the mol., is described along with the use of the hexafluoroethane as an etching gas. This process comprises: (1) reacting a gas mixture containing pentafluoroethane and a compound having chlorine atom (e.g., chloromethane) with hydrogen fluoride in the gaseous phase in the presence of a fluorination catalyst to fluorinate the compound having the chlorine atom; and (2) reacting the gas mixture containing pentafluoroethane and the fluorinated compound obtained in step (1) with a fluorine gas in the gaseous phase in the presence of a diluting gas (e.g., HF).

and

=> s l8 and chromium oxide
392919 CHROMIUM
75 CHROMIUMS
392923 CHROMIUM
(CHROMIUM OR CHROMIUMS)
1848404 OXIDE
357183 OXIDES
1949115 OXIDE
(OXIDE OR OXIDES)
36987 CHROMIUM OXIDE
(CHROMIUM(W)OXIDE)
L13 5 L8 AND CHROMIUM OXIDE

=> d l13 not l12
L12 IS NOT VALID HERE
For an explanation, enter "HELP DISPLAY".

=> s l13 not l12
L14 3 L13 NOT L12

=> d l14 ibib ab tot

L14 ANSWER 1 OF 3 CAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 2001:62373 CAPLUS
DOCUMENT NUMBER: 134:102544
TITLE: Process and catalysts for the removal of chlorine from chlorofluorocarbons by their reaction with hydrofluorocarbons
INVENTOR(S): Cuzzato, Paolo; Peron, Sergio
PATENT ASSIGNEE(S): Ausimont S.p.A., Italy; Solvay Solexis S.p.A.
SOURCE: Eur. Pat. Appl., 4 pp.
CODEN: EPXXDW
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 1070696	A2	20010124	EP 2000-115288	20000714
EP 1070696	A3	20010328		
EP 1070696	B1	20030528		

R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO

IT 99MI1595	A1	20010122	IT 1999-MI1595	19990720
US 6479717	B1	20021112	US 2000-618132	20000717
CA 2314351	A1	20010120	CA 2000-2314351	20000719
JP 2001048813	A	20010220	JP 2000-219333	20000719

PRIORITY APPLN. INFO.: IT 1999-MI1595 A 19990720

OTHER SOURCE(S): MARPAT 134:102544

AB A gaseous process for eliminating chlorine atoms from chlorofluorocarbons CnFxCl_y (n = 1-3; and x & y = 2n + 2) comprises reacting the chlorofluorocarbon with a hydrofluorocarbon Cn'Fx'Hy' (n', x', y' are as defined above or different) in the presence of a fluorination catalyst (e.g., trivalent chromium oxide) in the solid phase at 200-400°.

L14 ANSWER 2 OF 3 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1983:215170 CAPLUS

DOCUMENT NUMBER: 98:215170

ORIGINAL REFERENCE NO.: 98:32705a,32708a

TITLE: Fluorination of haloalkanes

PATENT ASSIGNEE(S): Asahi Glass Co., Ltd., Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 4 pp. CODEN: JKXXAF

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 57197232	A	19821203	JP 1981-79377	19810527
JP 60006927	B	19850221		

PRIORITY APPLN. INFO.: JP 1981-79377 19810527

AB Fluorohaloalkanes were prepared by fluorination of haloalkanes with HF in the presence of Al, Mg, and Cr oxides. Thus, 2.5 l aqueous solution of Al(NO₃)₃·9H₂O 1100, Cr(NO₃)₃·9H₂O 125, and Mg(NO₃)₂·6H₂O 40 g was treated with 2000 g 28% aqueous NH₄OH, 4 l H₂O and the precipitated oxides filtered, washed, dried, calcined at 450° for 5 h, and treated with HF/N at 200-400° to give an activated catalyst, which (300 mL) was contacted with 1 mol/h HF and 0.5 mol/h C₂Cl₃F₃ to give a product mixture containing C₂F₆ 0.7, C₂ClF₅ 71.0, C₂Cl₂F₄ 17.6, and C₂Cl₃F₃ 10.4%.

L14 ANSWER 3 OF 3 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1982:581702 CAPLUS

DOCUMENT NUMBER: 97:181702

ORIGINAL REFERENCE NO.: 97:30385a,30388a

TITLE: Catalysts for the fluorination in the gaseous phase of chlorinated aliphatic derivatives based on chromium oxide microspheres

INVENTOR(S): Foulletier, Louis

PATENT ASSIGNEE(S): Produits Chimiques Ugine Kuhlmann, Fr.

SOURCE: Eur. Pat. Appl., 14 pp. CODEN: EPXXDW

DOCUMENT TYPE: Patent

LANGUAGE: French
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 55652	A1	19820707	EP 1981-401980	19811211
EP 55652	B1	19850220		
R: BE, DE, FR, GB, IT, NL				
FR 2501062	A1	19820910	FR 1980-27659	19801229
FR 2501062	B1	19841012		
CA 1154425	A1	19830927	CA 1981-390772	19811124
US 4439534	A	19840327	US 1981-324437	19811124
JP 57119836	A	19820726	JP 1981-193767	19811203
JP 03014498	B	19910226		
DD 208084	A5	19840328	DD 1981-235627	19811210
PL 129986	B1	19840630	PL 1981-234425	19811223
AU 8179037	A	19820708	AU 1981-79037	19811224
AU 541788	B2	19850117		
BR 8108429	A	19821013	BR 1981-8429	19811228
ES 508385	A1	19830316	ES 1981-508385	19811228
US 4748285	A	19880531	US 1986-935144	19861125
JP 03072946	A	19910328	JP 1990-190344	19900718
JP 05009135	B	19930204		

PRIORITY APPLN. INFO.:

FR 1980-27659	A	19801229
US 1981-324437	A3	19811124
US 1982-429080	A1	19820930

OTHER SOURCE(S): MARPAT 97:181702

AB The fluorination of aliphatic compds. was catalyzed by Cr2O3. Hexachloroethane (formed in situ from tetrachloroethylene and Cl) reacted with HF over Cr2O3 at 340° to give tetrachlorodifluoroethane, trichlorotrifluoroethane, dichlorotetrafluoroethane, CF3CF2Cl, and ClCF2CF2Cl.

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COST IN U.S. DOLLARS

SINCE FILE	TOTAL
ENTRY	SESSION
45.38	87.78

FULL ESTIMATED COST

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

SINCE FILE	TOTAL
ENTRY	SESSION
-4.80	-4.80

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